SCORE Search Results Details for Application 10552515 and Search Result 20081001_124607_us-10-552-515-1.rapbm.

Score Home Page   Retrieve Application List   SCORE System Overview   SCORE FAQ   Comments / Suggestions

This page gives you Search Results detail for the Application 10552515 and Search Result 20081001_124607_us-10-552-515-1.rapbm.

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                    GenCore version 6.2.1
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OM protein - protein search, using sw model

Run on:          October  1, 2008, 12:46:15 ; Search time 829 Seconds
                                             (without alignments)
                                             1085.529 Million cell updates/sec

Title:           US-10-552-515-1
Perfect score:   4950
Sequence:        1 MRMAATAWAGLQGPPLPTLC..........SELSSHWTPFTVPKASQLQQ 933

Scoring table:   BLOSUM62
                 Gapop 10.0 , Gapext 0.5

Searched:        4190237 seqs, 964526986 residues

Total number of hits satisfying chosen parameters:      4190237

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Published_Applications_AA_Main:*
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        Pred. No. is the number of results predicted by chance to have a
        score greater than or equal to the score of the result being printed,
        and is derived by analysis of the total score distribution.
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                              SUMMARIES
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Result            Query
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      1    4950   100.0    933   5   US-10-552-515-1           Sequence 1, Appli
      2  4531.5    91.5    885   7   US-11-599-845A-700        Sequence 700, App
      3  4364.5    88.2    843   7   US-11-599-845A-698        Sequence 698, App
      4    3736    75.5    898   5   US-10-450-763-45847       Sequence 45847, A
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     10    1488    30.1    960   6   US-11-177-894-7           Sequence 7, Appli
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     42   814.5    16.5    853   6   US-11-443-428A-1026043    Sequence 1026043,
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ALIGNMENTS

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; Sequence 1, Application US/10552515
; Publication No. US20060194204A1
; GENERAL INFORMATION:
;   APPLICANT: The Government of the United States of America as
;   APPLICANT:  represented by the Secretary of the Department of Health and
;   APPLICANT:  Human Services
;   APPLICANT:  Bera, Tapan K.
;   APPLICANT:  Pastan, Ira H.
;   APPLICANT:  Lee, Byungkook
;   TITLE OF INVENTION: GENE EXPRESSED IN PROSTATE CANCER AND METHODS OF USE
;   FILE REFERENCE: 4239-68223-02
;   CURRENT APPLICATION NUMBER: US/10/552,515
;   CURRENT FILING DATE:  2005-10-06
;   PRIOR APPLICATION NUMBER: PCT/US2004/10588
;   PRIOR FILING DATE: 2004-04-05
;   PRIOR APPLICATION NUMBER: 60/461,399
;   PRIOR FILING DATE: 2003-04-08
;   NUMBER OF SEQ ID NOS: 12
;   SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
;   LENGTH: 933
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Splice Variant-Novel Gene Expressed in Prostate
US-10-552-515-1

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RESULT 2
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; Sequence 700, Application US/11599845A
; Publication No. US20080025981A1
; GENERAL INFORMATION:
;   APPLICANT: Young, Paul E.
;   APPLICANT: Ebner, Reinhard
;   APPLICANT: Weaver, Zoe
;   APPLICANT: Strovel, Jeffrey W.

```
;   APPLICANT:   Horrigan, Stephen K.
;   APPLICANT:   Shea, Martin
;   APPLICANT:   Weigle, Bernd
;   APPLICANT:   Rieger, Michael
;   APPLICANT:   Rick, Jennifer A.
;   APPLICANT:   Cain, Colyn B.
;   TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy
;   FILE REFERENCE: 689290-273
;   CURRENT APPLICATION NUMBER: US/11/599,845A
;   CURRENT FILING DATE:  2006-11-15
;   PRIOR APPLICATION NUMBER: 10/585,466
;   PRIOR FILING DATE: 2005-01-04
;   PRIOR APPLICATION NUMBER: PCT/US2005/000040
;   PRIOR FILING DATE: 2005-01-04
;   PRIOR APPLICATION NUMBER: 10/583,832
;   PRIOR FILING DATE: 2004-12-16
;   PRIOR APPLICATION NUMBER: PCT/US2004/42406
;   PRIOR FILING DATE: 2004-12-16
;   PRIOR APPLICATION NUMBER: 10/575,337
;   PRIOR FILING DATE: 2004-10-07
;   PRIOR APPLICATION NUMBER: PCT/US2004/33072
;   PRIOR FILING DATE: 2004-10-07
;   PRIOR APPLICATION NUMBER: 10/540,310
;   PRIOR FILING DATE: 2003-12-19
;   PRIOR APPLICATION NUMBER: PCT/US2003/40710
;   PRIOR FILING DATE: 2003-12-19
;   PRIOR APPLICATION NUMBER: 10/518,039
;   PRIOR FILING DATE: 2003-06-10
;   PRIOR APPLICATION NUMBER: PCT/US2003/19741
;   PRIOR FILING DATE: 2003-06-10
;   Remaining Prior Application data removed – See File Wrapper or PALM.
;   NUMBER OF SEQ ID NOS: 769
;   SOFTWARE: PatentIn version 3.0
; SEQ ID NO 700
;    LENGTH: 885
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-599-845A-700

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RESULT 3
US-11-599-845A-698
; Sequence 698, Application US/11599845A
; Publication No. US20080025981A1

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;  GENERAL INFORMATION:
;   APPLICANT: Young, Paul E.
;   APPLICANT:  Ebner, Reinhard
;   APPLICANT:  Weaver, Zoe
;   APPLICANT:  Strovel, Jeffrey W.
;   APPLICANT:  Horrigan, Stephen K.
;   APPLICANT:  Shea, Martin
;   APPLICANT:  Weigle, Bernd
;   APPLICANT:  Rieger, Michael
;   APPLICANT:  Rick, Jennifer A.
;   APPLICANT:  Cain, Colyn B.
;   TITLE OF INVENTION: Cancer-linked Genes as Target for Chemotherapy
;   FILE REFERENCE: 689290-273
;   CURRENT APPLICATION NUMBER: US/11/599,845A
;   CURRENT FILING DATE:  2006-11-15
;   PRIOR APPLICATION NUMBER: 10/585,466
;   PRIOR FILING DATE: 2005-01-04
;   PRIOR APPLICATION NUMBER: PCT/US2005/000040
;   PRIOR FILING DATE: 2005-01-04
;   PRIOR APPLICATION NUMBER: 10/583,832
;   PRIOR FILING DATE: 2004-12-16
;   PRIOR APPLICATION NUMBER: PCT/US2004/42406
;   PRIOR FILING DATE: 2004-12-16
;   PRIOR APPLICATION NUMBER: 10/575,337
;   PRIOR FILING DATE: 2004-10-07
;   PRIOR APPLICATION NUMBER: PCT/US2004/33072
;   PRIOR FILING DATE: 2004-10-07
;   PRIOR APPLICATION NUMBER: 10/540,310
;   PRIOR FILING DATE: 2003-12-19
;   PRIOR APPLICATION NUMBER: PCT/US2003/40710
;   PRIOR FILING DATE: 2003-12-19
;   PRIOR APPLICATION NUMBER: 10/518,039
;   PRIOR FILING DATE: 2003-06-10
;   PRIOR APPLICATION NUMBER: PCT/US2003/19741
;   PRIOR FILING DATE: 2003-06-10
;   Remaining Prior Application data removed - See File Wrapper or PALM.
;   NUMBER OF SEQ ID NOS: 769
;   SOFTWARE: PatentIn version 3.0
; SEQ ID NO 698
;   LENGTH: 843
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-599-845A-698

  Query Match                88.2%;   Score 4364.5;   DB 7;   Length 843;
  Best Local Similarity    99.6%;   Pred. No. 0;
  Matches  824;  Conservative     0;  Mismatches     0;  Indels    3;  Gaps    2;


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Db       122  KLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQQDVQDGNTTVHYALLSASWAVLC  181

Qy       181  YYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCRFRVNKLPRF  240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       182  YYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCRFRVNKLPRF  241

Qy       241  LGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKT  300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       242  LGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKT  301

Qy       301  PPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPA  360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       302  PPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPA  361

Qy       361  AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH  420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       362  AVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDH  421

Qy       421  GGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPI  480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       422  GGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPI  481

Qy       481  TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAW  540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       482  TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAW  541

Qy       541  ASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFY  600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       542  ASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFY  601

Qy       601  SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV  660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       602  SSPVYIAFFKGRFVGYPGNYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV  661

Qy       661  LIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTI  720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       662  LIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTI  721

Qy       721  FVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN  780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       722  FVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN  781

Qy       781  AFLLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTC  827
              |||||||||||||||||||||||||||||||||||||||||||||||
Db       782  AFLLAFSSDFLPRAYYRWTRAHDLRGFLNFTLARAPSSFAAAHNRTC  828
```

RESULT 4
US-10-450-763-45847
; Sequence 45847, Application US/10450763

; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 45847
;   LENGTH: 898
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-450-763-45847

  Query Match   75.5%;   Score 3736; DB 5; Length 898;
  Best Local Similarity   82.3%;   Pred. No. 0;
  Matches 727; Conservative   4; Mismatches   16; Indels 136; Gaps   6;

Qy   1 MRMAATAWAGLQGPPLPTLCPAVRTGLYCRDQAHAER---------------------- 37
            |||||||||||||||||||||||||||||||||||||
Db   1 MRMAATAWAGLQGPPLPTLCPAVRTGLYCRDQAHAERATDVVLLAPFCQPKTRSHGTCPP 60

Qy   38 ----------------------W---AMTSETS-------------------------SG 47
                                  | |:| | |
Db   61 TERDPRGEGSTEYPGRVDGIQGWGTRALTGWTDRRLLCQACQTLPPRHWFLPGARGWLGG 120

Qy   48 SHCA------------------RSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYGSTAH 87
            | || :||||||||||||||||||||||||||||||||||||
Db   121 SPCAHGQESLPSQPSPILLRVESVKSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYGSTAH 180

Qy   88 ASEPGGQQAAACRAGSPAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLDN 147
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 ASEPGGQQAAACRAGSPAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLDN 240

Qy   148 LRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLL 207
            |||||||||||||||||||||||||||||||||||||||||||||||:| | :
Db   241 LRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQDYPTRPPTGRPACC 300

Qy   208 AWLGIPNVLLEVVPDVPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTP 267
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   301 AWLGIPNVLLEVVPDVPPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTP 360

Qy   268 YGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWN 327
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   361 YGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWN 420

Qy   328 KYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387

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             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     421   KYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 480

Qy     388   KDSFEMCPLCLDCPFWLLSSACALAQ----AGRLFDHGGTVFFSLFMALWAVLLLEYWKR 443
             ||||||||||||||||||||||||||    |||||||||||||||||||||||||||||||
Db     481   KDSFEMCPLCLDCPFWLLSSACALAQVREEAGRLFDHGGTVFFSLFMALWAVLLLEYWKR 540

Qy     444   KSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVV 503
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     541   KSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVV 600

Qy     504   IVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKI 563
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     601   IVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKI 660

Qy     564   YVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTL 623
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     661   YVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTL 720

Qy     624   FGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRLRSKKRKAGA 683
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     721   FGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRLRSKKRKAGA 780

Qy     684   SAGASQGPWEDDYELVPCEGLFDEYLEM-------------------------------- 711
             ||||||||||||||||||||||||||||
Db     781   SAGASQGPWEDDYELVPCEGLFDEYLEMGAGFCPNACPELVPELTEPEKARDQPEARSAG 840

Qy     712   -------VLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKF 747
                    ||||||||||||||||||||||||||||||||||||
Db     841   QDSRPEAVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKF 883
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RESULT 5
US-10-104-047-2574
; Sequence 2574, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. US20030236392A1el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2574
;   LENGTH: 920
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-2574

  Query Match             30.9%;   Score 1531.5;   DB 4;   Length 920;
  Best Local Similarity   37.9%;   Pred. No. 1.9e-138;
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 Matches  360;  Conservative  168;  Mismatches  316;  Indels  105;  Gaps   29;

Qy      44 TSSGSHCARSRMLRRRAQEEDSTVLID----VSPPEAE-----KRGSYGST---AHASEP  91
           :|||    ::::   | :|  :| |    || |   :      |: ||    |   |
Db       4 SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDDSLLHPGNLTSTSDDASRLEA  61

Qy      92 GGQQAAACRAGS-----PAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLD 146
           ||:          :      | || |::||: :        :  :|:      || |
Db      62 GGETVPERNKSNGLYFRDGKCRI-DYILVYRK----------SNPQTEK----REVFER 105

Qy     147 NLRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNW 202
           |:|| ||  ::::      |: :  |  | | || ||| : ::: |       || :
Db     106 NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFM 164

Qy     203 S------AGLLAWLGIPNVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTST 253
           |      : |  ||  : |  | :||:   : |:  |   :  |: |   |::|||  :
Db     165 SRIDKQISRLRRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNA 223

Qy     254 KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQR 313
           |  :|:   || :    |  | ||  :|::|| |     |||||:| :::         | |
Db     224 TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHR 282

Qy     314 QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCF 373
           :|::  || || | ||||||| |||||||: |||||||:||| | ||| :|   ||| |
Db     283 HLLYECWASWGVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGVT 342

Qy     374 LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL 432
           :      ::|:| : |   |||:|    ||| |   || :|  |:   |||:| ||||::|||:
Db     343 TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV 401

Qy     433 WAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER 491
           || :  ||:|||: |  :|| ||  |:|: ||  ||||  |        |||:|: |||
Db     402 WATVFLEFWKRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFT 461

Qy     492 SRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIA 545
           :   |::  :   |  |: ||:  :   |::||  :        :|   |  ||       |::|
Db     462 DKCSRLIVSASGIFFMICVVIAAVFGIVIYRVVTV-------STFAAFKWALIRNNSQVA 514

Qy     546 SLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSP 603
           :  ||:  |   | |::|: :|   :| :||   | ||:::::|::||||:|:|:||||| ||
Db     515 T-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNSST 573

Qy     604 VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLI 662
           ||||| ||| |:|| |   |   | ||| |||:|  :: :||| || || ||  |:
Db     574 FYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQMGIIMVLKQTWNNFMELGY 633

Qy     663 PKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTI 720
           | :: || : |   ::: |     |   || || |   ||||||||:|||| ||
Db     634 PLIQNWWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI 690

Qy     721 FVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN 780
           |||| ||||| |||| :|||||| ::||:| ||:||||: ||:|||: || |: |:|:|
Db     691 FVAAFPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVITN 750
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Qy    781 AFLLAFSSDFLPRAYYRW---------TRAHDLRGFLNFTLA--------------RAP 816
              ||::| :|||:||   | :            : |::| :|:
Db    751 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDG 810


Qy    817 SSFAAAHNRTCRYRAFRDDDGH-----YSQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLL 871
              | |:     : ||||  :||       |:  :|::|| ||||:|||||:|| :  |:  |
Db    811 SEFSGTPLKYCRYRDYRDPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYL 870


Qy    872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
              :||:|: :   :::|| || :: : | |:         |: :  |    : |
Db    871 IPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNGKAHHNEW 919
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RESULT 6
US-11-072-512-2574
; Sequence 2574, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2574
;   LENGTH: 920
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-072-512-2574

  Query Match   30.9%; Score 1531.5; DB 6; Length 920;
  Best Local Similarity   37.9%; Pred. No. 1.9e-138;
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 Matches  360;  Conservative  168;  Mismatches  316;  Indels  105;  Gaps   29;

Qy     44 TSSGSHCARSRMLRRRAQEEDSTVLID----VSPPEAE-----KRGSYGST---AHASEP 91
          :|||    ::::    |   :|   :| |    || |  :      |:  ||    |    |
Db      4 SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDDSLLHPGNLTSTSDDASRLEA 61

Qy     92 GGQQAAACRAGS-----PAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLD 146
          ||:         :         |  || |::||: :         :  :|:     || |
Db     62 GGETVPERNKSNGLYFRDGKCRI-DYILVYRK----------SNPQTEK----REVFER 105

Qy    147 NLRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNW 202
          |:|| ||  ::::    |:  :    | |  || |||  : ::: :       || :
Db    106 NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFM 164

Qy    203 S------AGLLAWLGIPNVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTST 253
          |       : |   ||    : |   | :||:   : |:    ::    |:    |::||| :
Db    165 SRIDKQISRLRRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNA 223

Qy    254 KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQR 313
          | :|:   || :  |  | || :|::|||   |||||||:| :::            | |
Db    224 TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHR 282

Qy    314 QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCF 373
          :|::  || || | |||||| ||||||||||||||: |||||||:||| | ||| :| ||| |
Db    283 HLLYECWASWGVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGVT 342

Qy    374 LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL 432
          :       ::|:| : |    |||:|    |||  || :|    |:  |||:| ||||::|||:
Db    343 TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV 401

Qy    433 WAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER 491
          || :  ||:|||: |  :||  ||   |:|:   || |||| |   :        |||:|: |||
Db    402 WATVFLEFWKRRAVIAYDWDLIDWEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFT 461

Qy    492 SRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIA 545
          :  |::  :   |  |:  ||:   :  |::||  :          :|   |   ||      |::|
Db    462 DKCSRLIVSASGIFFMICVVIAAVFGIVIYRVVTV-------STFAAFKWALIRNNSQVA 514

Qy    546 SLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSP 603
          :  ||:  |    |   |::|: :|    :| :||   |   ||:::::::||||:|:||||| ||
Db    515 T-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNSST 573

Qy    604 VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLI 662
          |||||  ||| |:|:||    |   | |||  ||||:|  :: :||| || || |:
Db    574 FYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQMGIIMVLKQTWNNFMELGY 633

Qy    663 PKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTI 720
          | ::  || :    |   :::  |     | || || |  |||||||||:|||||  ||
Db    634 PLIQNWWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI 690

Qy    721 FVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN 780
          ||||  |||| |||||| :||||||| ::|||:| ||:|||||: || |:  |:||:|
Db    691 FVAAFPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVITN 750
```

```
Qy   781 AFLLAFSSDFLPRAYYRW---------TRAHDLRGFLNFTLA-------------RAP 816
         ||::| :|||:||  | :            : |::| :|:
Db   751 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDG 810


Qy   817 SSFAAAHNRTCRYRAFRDDDGH-----YSQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLL 871
         | |:    : |||| :||        |: :|::|| ||||:|||||:|| :  |: |
Db   811 SEFSGTPLKYCRYRDYRDPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYL 870


Qy   872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
         :||:|:  :  :::|| || :: :  | |:       |: :  |    : |
Db   871 IPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNGKAHHNEW 919
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RESULT 7
US-11-582-861-10841
; Sequence 10841, Application US/11582861
; Publication No. US20070099251A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Hui
; APPLICANT: Aebersold, Rudolf H.
; TITLE OF INVENTION: TISSUE- AND SERUM-DERIVED GLYCOPROTEINS
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: 460092.404
; CURRENT APPLICATION NUMBER: US/11/582,861
; CURRENT FILING DATE: 2006-10-17
; PRIOR APPLICATION NUMBER: US 60/728,044
; PRIOR FILING DATE: 2005-10-17
; NUMBER OF SEQ ID NOS: 14918
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10841
;   LENGTH: 981
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-582-861-10841

  Query Match   30.9%; Score 1527.5; DB 6; Length 981;
  Best Local Similarity   37.8%; Pred. No. 5e-138;
  Matches 359; Conservative 168; Mismatches 317; Indels 105; Gaps   29;

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Qy    44 TSSGSHCARSRMLRRRAQEEDSTVLID----VSPPEAE-----KRGSYGST---AHASEP 91
         :|||    ::::    | :| :| |   || | :   |: || | |
Db    65 SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDDSLLHPGNLTSTSDDASRLEA 122


Qy    92 GGQQAAACRAGS-----PAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLD 146
         ||:     :      | || |::||: :          :  :|:       || |
Db   123 GGETVPERNKSNGLYFRDGKCRI-DYILVYRK----------SNPQTEK----REVFER 166


Qy   147 NLRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNW 202
         |:|| ||  :::::  |: : :  | | | ||  ||| : :::| :       || :
Db   167 NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFM 225


Qy   203 S------AGLLAWLGIPNVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTST 253
         |      :    ||    : |  | |:||:  : |:   |:   |: :|||| :
Db   226 SRIDKQISRFRRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNA 284
```

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Qy   254 KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQR 313
             | :|:   || :   |   | || :|::||   |    |||||:| ::::          | |
Db   285 TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHR 343

Qy   314 QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCF 373
             :|:: || || | |||||| |||||||: |||||||:||| | ||| :|  ||| |
Db   344 HLLYECWASWGVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGVT 403

Qy   374 LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL 432
             :      ::|:|  :  |     |||:|   |||   || :|   |:     |||:| ||||::|||:
Db   404 TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV 462

Qy   433 WAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER 491
             || :  ||:|||| | :|| ||   |:|:  ||  |||| |    :      |||:|: |||
Db   463 WATVFLEFWKRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFT 522

Qy   492 SRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIA 545
             :   |:: :   |  |: ||:  :   |::|| :              :|   |   ||        |::|
Db   523 DKCSRLIVSASGIFFMICVVIAAVFGIVIYRVVTV-------STFAAFKWALIRNNSQVA 575

Qy   546 SLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSP 603
             : ||:  |      |::|: :|   :|  :||   ||:::|::||||:|:|||||   ||
Db   576 T-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNSST 634

Qy   604 VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLI 662
             ||||| |||  |:|| |   |          | |||  ||||:|   :: :||| ||  ||   |:
Db   635 FYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQGIIMVLKQTWNNFMELGY 694

Qy   663 PKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTI 720
             | :: || :   |   ::: |     |   || || | |   ||||||||:|||||  ||
Db   695 PLIQNWWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI 751

Qy   721 FVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN 780
             |||| ||||| ||||| :||||||| ||| ::|||:| ||:|||||: || |:   |:||:|
Db   752 FVAAFPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVITN 811

Qy   781 AFLLAFSSDFLPRAYYRW----------TRAHDLRGFLNFTLA--------------RAP 816
             ||::| :|||:||  | :                  : |::| :|:
Db   812 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDG 871

Qy   817 SSFAAAHNRTCRYRAFRDDDGH-----YSQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLL 871
             | |:   : |||| :||   |:  :|::|| ||||:||||||:|| :  |:  |
Db   872 SEFSGTPLKYCRYRDYRDPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYL 931

Qy   872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
             :||:|: :   :::|| || :: :   |  |:          |: :   |       :  |
Db   932 IPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNGKAHHNEW 980
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RESULT 8
US-11-582-861-9875
; Sequence 9875, Application US/11582861
; Publication No. US20070099251A1

```
; GENERAL INFORMATION:
;  APPLICANT: Zhang, Hui
;  APPLICANT:  Aebersold, Rudolf H.
;  TITLE OF INVENTION: TISSUE- AND SERUM-DERIVED GLYCOPROTEINS
;  TITLE OF INVENTION:  AND METHODS OF THEIR USE
;  FILE REFERENCE: 460092.404
;  CURRENT APPLICATION NUMBER: US/11/582,861
;  CURRENT FILING DATE:  2006-10-17
;  PRIOR APPLICATION NUMBER: US 60/728,044
;  PRIOR FILING DATE: 2005-10-17
;  NUMBER OF SEQ ID NOS: 14918
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9875
;    LENGTH: 1046
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-582-861-9875
```

```
  Query Match                 30.5%;   Score 1511;  DB 6;   Length 1046;
  Best Local Similarity   39.7%;   Pred. No. 2.2e-136;
  Matches  334;  Conservative  156;  Mismatches  264;  Indels   88;  Gaps    25;

Qy        106 KPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQQDVQDGNT 165
              | ||  |::||:               :|::      | ||  ||||  || ::::       :
Db        226 KKRI-DYILVYR--------------KTNIQYDKRNTFEKNLRAEGLMLEKEPA-IASP 268

Qy        166 TVHYALLSASWAVLCYYAEDLRLKLP----------------LQELPNQASNWSAGLLA 208
               : :  :    |  || ||| | :::|                  :|     :  || |
Db        269 DIMFIKIHIPWDTLCKYAERLNIRMPFRKKCYYTDGRSKSMGRMQTYFRRIKNWMA---- 324

Qy        209 WLGIPNVL-LEVVPDV-PPEYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKT 266
               | ||     ||:   : |:  |   ::  |:   :|:||||::  | :|:: :| :|
Db        325 --QNPMVLDKSAFPDLEESDCYTGPFSRARIHHFI-INNKDTFFSNATRSRIVYHMLERT 381

Qy        267 PY--GHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKT----PPEGPQAPRLNQRQVLFQHW 320
               |  |  |   :||  :|:  |    |||| |:| :|:        |||     | | :|:: |
Db        382 KYENGISK---VGIRKLINNGSYIAAFPPHEGAYKSSQPIKTHGPQ----NNRHLLYERW 434

Qy        321 ARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIP 380
              |||| |  |:||||  :| |||||: |||||||:|||  |:|||:||  ||   | | : :
Db        435 ARWGMWYKHQPLDLIRLYFGEKIGLYFAWLGWYTGMLIPAAIVGLCVFFYGLFTMNNSQV 494

Qy        381 TQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLE 439
              :||:|  :  :  | |||||   :|    |: :|   |:        |||:|||||||::|||:|| : ||
Db        495 SQEICKATEVF-MCPLCDKNCSLQRLNDSCIYAKVTYLFDNGGTVFFAIFMAIWATVFLE 553

Qy        440 YWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRML 498
              :|||: :  | | ||  ::|:  ||  ||||  |        |||||: ||:  |    |:|
Db        554 FWKRRSILTYTWDLIEWEEEEETLRPQFEAKYYKMEIVNPITGKPEPHQPSSDKVTRLL 613

Qy        499 AGSVVIVVMVAVVVMCLVSIILYR-AIMAIVVSRSGNTLLAAWASRIASLTGSV-VNLVF 556
               |  |:::|:  :   :::||  :|      |   |: |  | : |:  :| :| :
Db        614 VSVSGIFFMISLVITAVFGVVVYRLVVMEQFASFKWNFIKQYW--QFATSAAAVCINFII 671
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Qy    557  ILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGY  616
                |::|:   |   :|::||   |   ||::::|::| ||:|:||||| ||  ||||| |||||:
Db    672  IMLLNLAYEKIAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGH  731

Qy    617  PGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRLR  675
                || |: ||    | ||| ||||:|  ::  |||  ||: || |: |  :: || : ::
Db    732  PGKYNKLFDRWRLEECHPSGCLIDLCLQMGVIMFLKQIWNNFMELGYPLIQNWWSRHKI-  790

Qy    676  SKKRKAGASAGASQGPWEDDYELVP--CEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAL  733
                | |    ||    ||:|: | |      || ||||||||||| |||||| ||||| ||
Db    791  ----KRGIH-DASIPQWENDWNLQPMNLHGLMDEYLEMVLQFGFTTIFVAAFPLAPLLAL  845

Qy    734  LNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPR  793
                ||| :|||||| |||  ::|||:  || |||||  || |:  ||||:|||::| :||::||
Db    846  LNNIIEIRLDAYKFVTQWRRPLPARATDIGIWLGILEGIGILAVITNAFVIAITSDYIPR  905

Qy    794  AYYRW----------TRAHDLRGFLNFTLARAP-SSFAAAHNRTCRYRAFR-----DDDG  837
                | :           : |:|::| :|:    |      :   |||| :|
Db    906  FVYEYKYGPCANHVEPSENCLKGYVNNSLSFFDLSELGMGKSGYCRYRDYRGPPWSSKPY  965

Qy    838  HYSQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAEN  897
                ::   ||::|| ||||:|||||:|| :    : |:||:|: :   :::|| || :: : |
Db    966  EFTLQYWHILAARLAFIIVFEHLVFGIKSFIAYLIPDVPKGLHDRIRREKYLVQEMMYEA  1025

Qy    898  EV  899
                |:
Db   1026  EL  1027
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RESULT 9
US-11-443-428A-801153
; Sequence 801153, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
;   APPLICANT: Mintz, Liat
;   APPLICANT: Xie, Hanqing
;   APPLICANT: Dahari, Dvir
;   APPLICANT: Levanon, Erez
;   APPLICANT: Freilich, Shiri
;   APPLICANT: Beck, Nili
;   APPLICANT: Zhu, Wei-Yong
;   APPLICANT: Wasserman, Alon
;   APPLICANT: Hermesh, Chen
;   APPLICANT: Azar, Idit
;   APPLICANT: Bernstein, Jeanne
;   TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
;   FILE REFERENCE: 02/23929
;   CURRENT APPLICATION NUMBER: US/11/443,428A
;   CURRENT FILING DATE: 2006-05-31
;   NUMBER OF SEQ ID NOS: 1034312
;   SOFTWARE: PatentIn version 3.1
; SEQ ID NO 801153
;   LENGTH: 981
;   TYPE: PRT

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;   ORGANISM: Homo sapiens
US-11-443-428A-801153

  Query Match              30.5%;  Score 1508;  DB 6;  Length 981;
  Best Local Similarity    39.7%;  Pred. No. 3.9e-136;
  Matches  334; Conservative  156; Mismatches  264; Indels  88; Gaps    25;


Qy        106 KPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLDNLRAAGLCVDQQDVQDGNT 165
              | || |::||:                :|::     | ||  |||| ||  ::::      :

Db        161 KRRI-DYILVYR--------------KTNIPYDKRNTFEKNLRAEGLMLEKEPA-IASP 203


Qy        166 TVHYALLSASWAVLCYYAEDLRLKLP----------------LQELPNQASNWSAGLLA 208
               :  :  :    |  || ||| | ::::|                  :|      :  || |

Db        204 DIMFIKIHIPWDTLCKYAERLNIRMPFRKKCYYTDGRSKSMGRMQTYFRRIKNWMA---- 259


Qy        209 WLGIPNVL-LEVVPDV-PPEYYSCRFVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKT 266
               | ||      ||:   : |:  |   ::  |:  :|:||||::  | :|:: :| :|

Db        260 --QNPMVLDKSAFPDLEESDCYTGPFSRARIHHFI-INNKDTFFSNATRSRIVYHMLERT 316


Qy        267 PY--GHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKT----PPEGPQAPRLNQRQVLFQHW 320
               |   |   |   :||  :|:   |     |||| |:|  :|:           |||      | |   :|:: |

Db        317 KYENGISK---VGIRKLINNGSYIAAFPPHEGAYKSSQPIKTHGPQ----NNRHLLYERW 369


Qy        321 ARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIP 380
               |||| |  |:|||| :| |||||: ||||||||:||| |:|||:|| || | |  : :

Db        370 ARWGMWYKHQPLDLIRLYFGEKIGLYFAWLGWYTGMLIPAAIVGLCVFFYGLFTMNNSQV 429


Qy        381 TQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLE 439
               :||:|  : :   | |||||  :|      |: :|  |:   |||:|||||||::|||:|| : ||

Db        430 SQEICKATEVF-MCPLCDKNCSLQRLNDSCIYAKVTYLFDNGGTVFFAIFMAIWATVFLE 488


Qy        440 YWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPERSRARRML 498
               :|||: : | | ||  ::|: ||  |||| |    |   ||||: ||: |    :   |:|

Db        489 FWKRRSILTYTWDLIEWEEEEETLRPQFEAKYYKMEIVNPITGKPEPHQPSSDKVTRLL 548


Qy        499 AGSVVIVVMVAVVVMCLVSIILYR-AIMAIVVSRSGNTLLAAWASRIASLTGSV-VNLVF 556
               |   | |:::|:   :   ::|| |:|    |   |: |    | : |:  :| :| :

Db        549 VSVSGIFFMISLVITAVFGVVVYRLVVMEQFASFKWNFIKQYW--QFATSAAAVCINFII 606


Qy        557 ILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGY 616
               |::|:   |   :|::||   |   ||:::::|::| ||:|:|||||  ||  ||||| |||||:

Db        607 IMLLNLAYEKIAYLLTNLEYPRTESEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGH 666


Qy        617 PGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRLR 675
               || |: ||  | ||| ||||:|  :: |||  ||: ||  |: | :: || : ::

Db        667 PGKYNKLFDRWRLEECHPSGCLIDLCLQMGVIMFLKQIWNNFMELGYPLIQNWWSRHKI- 725


Qy        676 SKKRKAGASAGASQGPWEDDYELVP--CEGLFDEYLEMVLQFGFVTIFVAACPLAPLFAL 733
               | |        ||    ||:|: | |    || ||||||||||||| |||||| ||||| ||

Db        726 ----KRGIH-DASIPQWENDWNLQPMNLHGLMDEYLEMVLQFGFTTIFVAAFPLAPLLAL 780


Qy        734 LNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPR 793
               ||| :|||||| ||| ::|||: || ||||| || |: ||||:|||::| :||::||

Db        781 LNNIIEIRLDAYKFVTQWRRPLPARATDIGIWLGILEGIGILAVITNAFVIAITSDYIPR 840
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Qy    794 AYYRW----------------TRAHDLRGFLNFTLARAP-SSFAAAHNRTCRYRAFR-----DDDG 837
              | :                  : |:|::| :|:      |        :  |||| :|
Db    841 FVYEYKYGPCANHVEPSENCLKGYVNNSLSFFDLSELGMGKSGYCRYRDYRGPPWSSKPY 900


Qy    838 HYSQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAEN 897
              ::   ||::|| ||||:|||||:|| :     :  |:||:|: :  :::|| || :: : |
Db    901 EFTLQYWHILAARLAFIIVFEHLVFGIKSFIAYLIPDVPKGLHDRIRREKYLVQEMMYEA 960


Qy    898 EV 899
              |:
Db    961 EL 962



RESULT 10
US-11-177-894-7
; Sequence 7, Application US/11177894
; Publication No. US20060040292A1
; GENERAL INFORMATION:
;  APPLICANT: West, et al.
;  TITLE OF INVENTION: Tumor Markers and Uses Thereof
;  FILE REFERENCE: 2002850-0048
;  CURRENT APPLICATION NUMBER: US/11/177,894
;  CURRENT FILING DATE:  2005-07-08
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
;    LENGTH: 960
;    TYPE: PRT
;    ORGANISM: Artificial
;    FEATURE:
;    OTHER INFORMATION: Transmembrane protein
US-11-177-894-7

  Query Match                  30.1%;   Score 1488;   DB 6;   Length 960;
  Best Local Similarity        37.6%;   Pred. No. 3.4e-134;
  Matches  363;  Conservative  160;  Mismatches  307;  Indels  136;  Gaps   28;

Qy    26 GLYCRDQAHAERWAMT--SETSSGSHCARSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYG 83
             ||| ||        : :      :  ||       :| | || | |:                |
Db    52 GLYFRDGRRKVDYILVYHHKRPSG-----NRTLVRRVQHSDTP--------------SGA 92


Qy    84 STAHASEPGGQQAAACRAGSPAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRET 143
             :       |    : |:   ||| |              :| :|             | ||
Db    93 RSVKQDHPLPGKGASLDAGSGEPP--------------MDYHEDD--------KRFRREE 130


Qy   144 FLDNLRAAGLCVDQQDVQDGNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQAS 200
             :  ||  ||| ::     :| :| :|    :  : | | ||| || |:||:| ::: :
Db   131 YEGNLLEAGLELE----RDEDTKIHGVGFVKIHAPWNVLCREAEFLKLKMPTKKMYH--I 184


Qy   201 NWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR----------FRVNKLPRFLGSDNQDTFF 250
             | : |||   | :|| ::   : |:   |          |    |   |  || :|:||
Db   185 NETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYPFSREKQHLFDLSD-KDSFF 241
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Qy    251  TSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRL  310
                |   |   |::|||  :|       | : :||   ||| ||  :||:|||||  :           :
Db    242  DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF  295

Qy    311  NQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLV  370
                | |::|:: |||:|  :  ||||:| ||:||||||: |||||||  ||   :|||::||  :|||
Db    296  NDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIVFLY  355

Qy    371  GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLF  429
                ||   :   :||:  |:|   : :    |||||     | :|  :||||||  |:|    |||:   |||||:|
Db    356  GCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSSACATARASHLFDNPATVFFSVF  415

Qy    430  MALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----RPRPQFAA-----SAPMTAPNPI  480
                |||||    :|:||||    | ||||  :  :|:  ||       || ::  |       |      : |
Db    416  MALWAATFMEHWKRKQMRLNYRWDLTGFEEEEEAVKDHPRAEYEARVLEKSLKKESRNKE  475

Qy    481  TGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAW  540
                |   |:        | |       |    | |:  :|||     ::  :|:||    ||   ::  :   :   : :
Db    476  T--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSN  533

Qy    541  ASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFY  600
                   : |   ::|||  |::|  ::|    :|    ||:  |:  :|:    ||:       |   |:  :|||   |
Db    534  IRVTVTATAVIINLVVIILLDEVYGCIARWLTKIEVPKTEKSFEERLIFKAFLLKFVNSY  593

Qy    601  SSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI-NNMQ  658
                :       |:||||||||| ||:|   :|      |  ||||  ||||:||   :|   :||:|||:|  ||:
Db    594  TPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLF  653

Qy    659  EVLIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFV  718
                |:  |||:|    :  :|: :             :  :|  || |  |   ||   ||:||::|||||
Db    654  EIGIPKMKKLIRYLKLKQQSPPDHEECVKRKQRYEVDYNLEPFAGLTPEYMEMIIQFGFV  713

Qy    719  TIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVI  778
                |:|||:  |||||||||||||  :||||||||:|||  | |||||  ||:|||||||::|| |:   ||||
Db    714  TLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVAVRAKDIGIWYNILRGIGKLAVI  773

Qy    779  SNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF-------AAAHN-----  824
                |||::::|:|||:||    | :::      : ||:| ||      |||        | |
Db    774  INAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPNDPLDL  829

Qy    825  ----RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLLVPDI  875
                    : |||: :|:      :   |   |: :| :||  |||||||||::| :    :| ::|||
Db    830  GYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDI  889

Qy    876  PESVEIKVKREYYLA----------KQALAENEVLFGTNGTKDEQP------------KG  913
                |: :  :: :|  |           || |    |       ||| |    |                  |
Db    890  PKDISQQIHKEKVLMVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHHNTKACPDSLG  947

Qy    914  SELSSH  919
                |   ||
Db    948  SPAPSH  953
```

RESULT 11

```
US-11-177-894-11
; Sequence 11, Application US/11177894
; Publication No. US20060040292A1
; GENERAL INFORMATION:
;  APPLICANT: West, et al.
;  TITLE OF INVENTION: Tumor Markers and Uses Thereof
;  FILE REFERENCE: 2002850-0048
;  CURRENT APPLICATION NUMBER: US/11/177,894
;  CURRENT FILING DATE:  2005-07-08
;  NUMBER OF SEQ ID NOS: 29
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
;   LENGTH: 840
;   TYPE: PRT
;   ORGANISM: Artificial
;   FEATURE:
;   OTHER INFORMATION: Homo sapiens
US-11-177-894-11
```

```
  Query Match                29.9%;   Score 1479.5;   DB 6;   Length 840;
  Best Local Similarity      40.0%;   Pred. No. 1.8e-133;
  Matches  340;  Conservative  152;  Mismatches  270;  Indels   89;  Gaps   22;

Qy      135 DMHRTWRETFLDNLRAAGLCVDQQDVQDGNTTVH---YALLSASWAVLCYYAEDLRLKLP 191
                | |   || :   ||   ||| ::    :| :| :|    :   : | | |||  || |:||:|
Db        6 DDKRFRREEYEGNLLEAGLELE----RDEDTKIHGVGFVKIHAPWNVLCREAEFLKLKMP 61

Qy      192 LQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR----------FRVNKLPRFL 241
                ::: :     | : |||     | :|| ::    : |:     |            |    |    |
Db       62 TKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYPFSREKQHLFD 117

Qy      242 GSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTP 301
                || :|:||   |    |  |::||| :|        | :  :||  ||| || :||:||||| :
Db      118 LSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY--- 172

Qy      302 PEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAA 361
                 :      | |::|:: |||:| : ||||:| ||:|||||: |||||||| ||   |:||:
Db      173 --NGENVEFNDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPAS 230

Qy      362 VVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDH 420
                :|| :|||  ||   : :||: |:|  : :    |||||   | :| :|||||| |:| |||:
Db      231 IVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSSACATARASHLFDN 290

Qy      421 GGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMT 475
                |||||:|||||| :|:|||| | |||| : :|: |: || ::  |      |
Db      291 PATVFFSVFMALWAATFMEHWKRKQMRLNYRWDLTGFEEEEDHPRAEYEARVLEKSLKKE 350

Qy      476 APNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNT 535
                : |   |   |:     | |     |   | |: |:||    :: :|:|| ||   :: : :
Db      351 SRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSP 408

Qy      536 LLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQ 595
                 : :        : |   ::|||  |:::|  ::|    :|  ||:| |:  :|:    ||:    | |:  :
Db      409 SVRSNIRVTVTATAVIINLVVIILLDEVYGCIARWLTKIEVPKTEKSFEERLIFKAFLLK 468
```

```
Qy    596  FVNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI  654
           ||| |:     |:|||||||| ||:|  :|    |  |||| ||||:||  :| :||:|||:|
Db    469  FVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLI  528

Qy    655  -NNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVL  713
            ||: |: |||:|    :   :|: :            :  :| || | | || ||:||::
Db    529  QNNLFEIGIPKMKKLIRYLKLKQQSPPDHEECVKRKQRYEVDYNLEPFAGLTPEYMEMII  588

Qy    714  QFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLT  773
           ||||||:|||: |||||||||||| :||||||:||| | ||||| ||:|||||::|| |:
Db    589  QFGFVTLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVAVRAKDIGIWYNILRGIG  648

Qy    774  HLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF-------AAAHN  824
           |||| :||:::|:|||:||   |  :::   : ||:| ||    |||          | |
Db    649  KLAVIIDAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPN  704

Qy    825  ---------RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVFSVGRLLDL  870
                    : |||: :|:      :  |   |: :| :|| ||||||||:::|   :   :|
Db    705  DPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDW  764

Qy    871  LVPDIPESVEIKVKREYYLA----------KQALAENEVLFGTNGTKDEQP---------  911
           ::||||: : :: :|  |          || |   |        ||| |
Db    765  VIPDIPKDISQQIHKEKVLMVELFMREEQDKQQLL--ETCMEKERQKDEPPCNHHNTKAC  822

Qy    912  ---KGSELSSH  919
              ||    ||
Db    823  PDSLGSPAPSH  833
```

```
RESULT 12
US-11-443-428A-774192
; Sequence 774192, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
;  APPLICANT: Mintz, Liat
;  APPLICANT:  Xie, Hanqing
;  APPLICANT:  Dahari, Dvir
;  APPLICANT:  Levanon, Erez
;  APPLICANT:  Freilich, Shiri
;  APPLICANT:  Beck, Nili
;  APPLICANT:  Zhu, Wei-Yong
;  APPLICANT:  Wasserman, Alon
;  APPLICANT:  Hermesh, Chen
;  APPLICANT:  Azar, Idit
;  APPLICANT:  Bernstein, Jeanne
;  TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
;  FILE REFERENCE: 02/23929
;  CURRENT APPLICATION NUMBER: US/11/443,428A
;  CURRENT FILING DATE:  2006-05-31
;  NUMBER OF SEQ ID NOS: 1034312
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 774192
;   LENGTH: 999
```

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;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-11-443-428A-774192

   Query Match              29.6%;   Score 1464;   DB 6;   Length 999;
   Best Local Similarity    37.4%;   Pred. No. 7.7e-132;
   Matches  344;  Conservative  167;  Mismatches  284;  Indels  124;  Gaps   27;

Qy       80 GSYGSTAHASEPGGQQAAACRAGSPAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRT 139
            |   |    ||   ||                         |::|    |:    :| :
Db      125 GETGKEPHAGGPG-----------------------------DIELG-PLDALEEERKEQ--- 154

Qy      140 WRETFLDNLRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQ- 198
            || |   || |||  : ::|::: :     :   : | || || |::|:| ::    :
Db      155 -REEFEHNLMEAGLEL-EKDLENKSQGSIFVRIHAPWQVLAREAEFLKIKVPTKKEMYEI 212

Qy      199 ------ASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCRFRVNKLP------RFLGSDNQ 246
                  | :|| |        :     : | | ||: : : |                :
Db      213 KAGGSIAKKFSAAL------QKLSSHLQPRV-PEHSNNKMKNLSYPFSREKMYLYNIQEK 265

Qy      247 DTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQ 306
            ||||  :   | |:|: ||| :|       | :||: |:|   : ||:|||||  : :| :
Db      266 DTFFDNATRSRIVHEILKRTACS-RANNTMGINSLIANNIYEAAYPLHDGEYDSPEDD-- 322

Qy      307 APRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTL 366
            :| |::|:| |||:| : |:||:| :|:||||: |||||||| || :|:|::|:| :
Db      323 ---MNDRKLLYQEWARYGVFYKFQPIDLIRKYFGEKIGLYFAWLGLYTSFLIPSSVIGVI 379

Qy      367 VFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVF 425
            ||| ||   : |||::|:|   :::| |||||   | :| |||||   |||  |||: |||
Db      380 VFLYGCATIEEDIPSREMCDQQNAFTMCPLCDKSCDYWNLSSACGTAQASHLFDNPATVF 439

Qy      426 FSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEER----PRPQFAA----------- 470
            ||:|||||| : || |||     | | || :  |: |||     ||::
Db      440 FSIFMALWATMFLENWKRLQMRLGYFWDLTGIEEEEERAQEHSRPEYETKVREKMLKESN 499

Qy      471 -SAPMTAPNPIT----GEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIM 525
             ||        |        :||   : |   |   |: |:|:    :  :|:||
Db      500 QSAVQKLETNTTECGDEDDEDKLTWKDRFPGYLMNFASILFMIALTFSIVFGVIVYRITT 559

Qy      526 AIVVSRSGNTLLAAWASRI---ASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTK 582
            |  :|      |   |  |:      : |   ::|||  |||| :||  ::|  ||: |: :|:
Db      560 AAALS-----LNKATRSNVRVTVTATAVIINLVVILILDEIYGAVAKWLTKIEVPKTEQT 614

Qy      583 FEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELA 641
            ||:    || |: :|||  ||   |:||||||||||: :| | | | |||| ||||||:||
Db      615 FEERLILKAFLLKFVNAYSPIFYVAFFKGRFVGRPGSYVYVFDGYRMEECAPGGCLMELC 674

Qy      642 QELLVIMVGKQVI-NNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGA-SQGP--WEDDYE 697
            :|  :||:|||:| ||:  |: :||||     : ||      : :|| :   | |: ||
Db      675 IQLSIIMLGKQLIQNNIFEIGVPKLK---KLFRKLKDETEAGETDSAHSKHPEQWDLDYS 731

Qy      698 LVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAE 757
            | |   ||   ||:||::|||||||:|||  ||||:||||| :|:|||||:||| | ||| |
```

```
Db    732 LEPYTGLTPEYMEMIIQFGFVTLFVASFPLAPVFALLNNVIEVRLDAKKFVTELRRPDAV 791

Qy    758 RAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRWTRAHD--LRGFLNFTLA-- 813
          | :||||||| ||:|:   :|||||||::| :|||:|| |::: :|: | ||:| ||:
Db    792 RTKDIGIWFDILSGIGKFSVISNAFVIAITSDFIPRLVYQYSYSHNGTLHGFVNHTLSFF 851

Qy    814 ---------RAPSSFAAAHNRTCRYRAFRD-----DDGHYSQTYWNLLAIRLAFVIVFEH 859
                   :  :|     :  ||::  :|:     :   :|: || :|: ||||||:|::
Db    852 NVSQLKEGTQPENSQFDQEVQFCRFKDYREPPWAPNPYEFSKQYWFILSARLAFVIIFQN 911

Qy    860 VVFSVGRLLDLLVPDIPESVEIKVKRE------YYLAKQALAENEVLFGTNGTKDEQPKG 913
          :|  :   |:| ::||||  :  ::|:|        ::|  :   |:| |   :     | |
Db    912 LVMFLSVLVDWMIPDIPTDISDQIKKEKSLLVDFFLKE----EHEKLKLMDEPALRSPGG 967

Qy    914 SELSSHWTPFTVPKA-SQL 931
           :  |       :  |   |||
Db    968 GDRSRSRAASSAPSGQSQL 986
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RESULT 13
US-11-097-143-15228
; Sequence 15228, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15228
;   LENGTH: 1219
;   TYPE: PRT
;   ORGANISM: DROSOPHILA

US-11-097-143-15228

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 Query Match              29.2%;  Score 1445;  DB 6;  Length 1219;
 Best Local Similarity    35.6%;  Pred. No. 7.3e-130;
 Matches  342;  Conservative  165;  Mismatches  332;  Indels  122;  Gaps   27;
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```
Qy      35 AERWAMTSETSSGSHCARSRML-----------RRRAQEEDSTVLIDVSPPEAEKRGSY 82
           |:|   : |      ||    | :|         |:| :  |:|          |||
Db     249 ADRVNQSYEVMESSH---SNVLPDQFGYRQLIPTERKASDTASSV----------SGSY 294

Qy      83 GSTAHASEP---GGQQAAACRAGSPAKP------------RIADFVLVW-EEDLKLDRQ 125
           : ||:   ||:    |      :        |  | || | |||| : :
Db     295 YGSRKASKSNSLGGESGDERRVSKQDREGLDPESLMFRDGRRKVDMVLAWEEEDLGVMTE 354

Qy     126 QDSAARDRTDMHRTWRETFLDNLRAAGLCVDQQD-VQDGNTTVHYALLSASWAVLCYYAE 184
           ::  ||      | :|::||   || |: :|  | |     :   :   | :    ||
Db     355 AEAKRRDN-------RRSFMENLIKEGLEVELEDKSQSFNEKTFFLKIHLPWRLETRLAE 407

Qy     185 DLRLKLP-------------------LQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPP 225
           : ||||                    |: :     |   |    : :   |||
Db     408 VMNLKLPVKRFITISVKPSWDEENVVLRNMQYWKDVWQR-LTKKIQLDQTLLE----GET 462

Qy     226 EYYSCRFRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEG 285
           : :      |   :|:  | : | |||  :|  :: ::|  :||:    ::  || :|: :|
Db     463 TFKAATANGNPEEQFIVKD-RATAFTSAQRSLMVMQVLIRTPFDESDRS--GIRRLMNDG 519

Qy     286 VLSAAFPLHDGPFKTPPEGPQAPRLN-QRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVA 344
            ||||:|  :       :  |  :  ::  |:||:| ||     :| |  |||  ||:|||:|:|
Db     520 TYLGCFPLHEGRY----DRPHSSGISLDRRVLYQTWAHPSQWYKKQPLCLVRKYFGDKIA 575

Qy     345 LYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSD--IPTQELCG--SKDSFEMCPLC-LD 399
           |||  ||||||  |:    |||||| |:  |   : |:     : :||||
Db     576 LYFCWLGFYTEMLVYPAVVGTLCFIYGLATLESEDNTPSKEICNEYGTGNITLCPLCDKA 635

Qy     400 CPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYED 459
           | :   || :|  ::     |||:    ||||::||: ||    || ||||  : | :  || :  |
Db     636 CSYQRLSESCLFSRLTYLFDNPSTVFFAIFMSFWATTFLELWKRKQSVLVWEWDLHNV-D 694

Qy     460 TEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSII 519
           :|   ||:|  :|       ||:|  |  |||    :|: |  :    :: |::||:  ::   |
Db     695 MDEENRPEFETNATTFRMNPVTREKEPYMSTWNRSIRFVITGSAVLFMISVVLSAVLGTI 754

Qy     520 LYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRT 579
           |||   :  |:     |    :    |     |:| :::|||  |:||::||  :|  ||  | ||
Db     755 LYRITLVSVIYGGGGFFVKEHAKLFTSVTAALINLVVIMILTRIYHRMAIKLTNLENPRT 814

Qy     580 QTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHT----LFGVRNEECAAGG 635
           |::||::| |:| |:|:|||||| :||||||||| ||| |||:           |  ::|: |    |
Db     815 HTEYEDSYTFKIFFFEFMNFYSSLIYIAFFKGRFFDYPGDDQARKSEFFRLKNDICDPAG 874

Qy     636 CLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDD 695
           || ||  :|  :||||||| ||  |   |  ||  ||:       :  |  ::|        || |
Db     875 CLSELCIQLAIIMVGKQCWNNFMEYLFPKFWNWWR----QRKHKQATKDESHLHMAWEQD 930
```

```
Qy    696 YELV-PCE-GLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRR 753
              | :    |     |||||||:||:|||:||||  ||||||||| |||||| | | : ||
Db    931 YHMQDPGRLALFDEYLEMILQYGFVTLFVAAFPLAPLFALLNNVAEIRLDAYKMVTQARR 990

Qy    754 PVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYR--WTRAHDLRGFLNFT 811
              |:||| :||| |: ||   :|: ||:|||||::|::|||:||  |:  ::  | | |:: :
Db    991 PLAERVEDIGAWYGILRIITYTAVVSNAFVIAYTSDFIPRMVYKFVYSETHTLAGYIEHS 1050

Qy    812 LA---------RAPSSFAAAHNRTCRYRAFRDDDGHY-----SQTYWNLLAIRLAFVIVF 857
              |:         :| :     ||:|| :|:      |      |  ||:: | |||||:||
Db   1051 LSIFNTSDYKEEWGASVSEKDPDTCQYRGYRNGPKDYEPYGLSPHYWHVFAARLAFVVVF 1110

Qy    858 EHVVFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELS 917
              |||||  :   ::   ::||:|  |:  :::||   |||:|  :        :| |  |      ::
Db   1111 EHVVFVITGIMQFIIPDVPSEVKTQMREQLLAKEAKYQ-------HGIKRAQGDSQDIM 1163

Qy    918 S 918
              |
Db   1164 S 1164
```


RESULT 14
US-11-443-428A-739452
; Sequence 739452, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 739452
;   LENGTH: 800
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-443-428A-739452

  Query Match   28.6%; Score 1417; DB 6; Length 800;
  Best Local Similarity   40.3%; Pred. No. 2e-127;
  Matches 326; Conservative 142; Mismatches 252; Indels 88; Gaps   22;

Qy   179 LCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR------- 231

```
                    ||   |   |:||:| :::  :    |  :  |||      |  :||  ::     :  |:      |
Db        7  LC--ARVLKLKMPTKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL  60

Qy      232  ---FRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS  288
                 |   |    |  ||  :|:|| |   |  |::|||  :|     |  : :|| ||| || :
Db       61  SYPFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA  118

Qy      289  AAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFA  348
             ||:|||||  :        :      |  |::|::  |||:| :  ||||:| ||:|||||:  ||||
Db      119  AAYPLHDGDY-----NGENVEFNDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFA  173

Qy      349  WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS  407
             ||| ||   |:||::|| :||| ||   :   :||: |:|   :  :  |||||    |  :| :||
Db      174  WLGVYTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSS  233

Qy      408  ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R  463
             |||  |:|  |||:   |||||:|||||||    :|:||||   |  ||||  :  :|: ||
Db      234  ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRLNYRWDLTGFEEEEEAVKDH  293

Qy      464  PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSI  518
             ||  ::  |       |       :  |   |   |:       ||      |    |  |:  |:||      ::  :
Db      294  PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGV  351

Qy      519  ILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHR  578
             |:||   || ||      ::  :  :    : :           :  |    ::|||  |:: |   ::|    :|   ||:  |: :
Db      352  IIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVIILLDEVYGCIARWLTKIEVPK  411

Qy      579  TQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCL  637
             |:   ||:      |  | |: :|||  |:      |:||||||||||  ||:|    :|      |   |||| ||||
Db      412  TEKSFEERLIFKAFLLKFVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL  471

Qy      638  IELAQELLVIMVGKQVI-NNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDY  696
             :||    :|  :||:|||:  ||: |:  |||:|      :    :|:  :              :   :|  ||
Db      472  MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLKQQSPPDHEECVKRKQRYEVDY  531

Qy      697  ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVA  756
             |  |    ||   ||:||::||||||:|||: |||||||||:| :|||||||  :||||:|||| | |||||
Db      532  NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVA  591

Qy      757  ERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLAR  814
             ||:|||||::|| |:  |||| |||:::|:|||:|| |   :::    :  ||:| ||
Db      592  VRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL--  649

Qy      815  APSSF-------AAAHN---------RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF  853
                  |||      | |            :  |||: :|:     :   |   |: :| :|| ||||
Db      650  --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF  707

Qy      854  VIVFEHVVFSVGRLLDLLVPDIPESVEIKVKREYYLA---------KQALAENEVLFGT  903
             ||||:::|  :    :|  ::|||||: :  ::  :|   |               ||  |      |
Db      708  VIVFQNLVMFMSDFVDWVIPDIPKDISQQIHKEKVLMVELFMREEQDKQQLL--ETWMEK  765

Qy      904  NGTKDEQP------------KGSELSSH  919
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RESULT 15
US-11-443-428A-739454
; Sequence 739454, Application US/11443428A
; Publication No. US20070083334A1
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 739454
;   LENGTH: 800
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-443-428A-739454

  Query Match   28.6%;   Score 1417; DB 6; Length 800;
  Best Local Similarity   40.3%;   Pred. No. 2e-127;
  Matches 326; Conservative 142; Mismatches 252; Indels   88; Gaps   22;

Qy   179 LCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR------- 231
                || | |:||:| ::: : | : ||| | :|| ::   : |: |
Db   7 LC--ARVLKLKMPTKKMYH--INETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRL 60

Qy   232 ---FRVNKLPRFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLS 288
               | | | || :|:|| | | |::||| :| | : :|| ||| || :
Db   61 SYPFSREKQHLFDLSD-KDSFFDSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYA 118

Qy   289 AAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFA 348
              ||:||||| :   : | |:::|:: |||:| : ||||:| ||:||||: ||||
Db   119 AAYPLHDGDY-----NGENVEFNDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFA 173

Qy   349 WLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSS 407
              ||| || |:||::|| :||| || :   :||: |:| : : ||||| | |: :||
Db   174 WLGVYTQMLIPASIVGIIVFLYGCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSS 233

Qy   408 ACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEE----R 463
              ||| |:| |||: ||||:||||| :|:|||| | |||| : :|: ||
Db   234 ACATARASHLFDNPATVFFSVFMALWAATFMEHWKRKQMRLNYRWDLTGFEEEEEAVKDH 293

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Qy    464  PRPQFAA-----SAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSI  518
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Db    294  PRAEYEARVLEKSLKKESRNKET--DKVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGV  351

Qy    519  ILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHR  578
                |:||  ||   :: : :  : :     : |   ::|||  |:::| ::|   :|  ||: |: :
Db    352  IIYRISMAAALAMNSSPSVRSNIRVTVTATAVIINLVVIILLDEVYGCIARWLTKIEVPK  411

Qy    579  TQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCL  637
                |:   ||:     |  |: :|||  |:      |:|||||||| ||:|   :|     |  |||| ||||
Db    412  TEKSFEERLIFKAFLLKFVNSYTPIFYVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCL  471

Qy    638  IELAQELLVIMVGKQVI-NNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDY  696
                :||   :| :||:|||:| ||: |:  |||:|      :   :|: :                 :  :| ||
Db    472  MELCIQLSIIMLGKQLIQNNLFEIGIPKMKKLIRYLKLKQQSPPDHEECVKRKQRYEVDY  531

Qy    697  ELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVA  756
                 |  |    || ||:||::|||||:|||: |||||||||||| :|||||||:|||  |  |||||
Db    532  NLEPFAGLTPEYMEMIIQFGFVTLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVA  591

Qy    757  ERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLAR  814
                ||:|||||::|| |:   |||| |||:::|:|||:||    | :::    : ||:| ||
Db    592  VRAKDIGIWYNILRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL--  649

Qy    815  APSSF-------AAAHN---------RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAF  853
                   |||        | |        : |||: :|:     :   |   |: :| :|| ||||
Db    650  --SSFNVSDFQNGTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAF  707

Qy    854  VIVFEHVVFSVGRLLDLLVPDIPESVEIKVKREYYLA----------KQALAENEVLFGT  903
                ||||:::|  :      :| ::|||||: : :: :|   |              || |     |
Db    708  VIVFQNLVMFMSDFVDWVIPDIPKDISQQIHKEKVLMVELFMREEQDKQQLL--ETWMEK  765

Qy    904  NGTKDEQP------------KGSELSSH  919
                   ||| |              ||    ||
Db    766  ERQKDEPPCNHHNTKACPDSLGSPAPSH  793
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Search completed: October 1, 2008, 13:00:05
Job time : 830 secs